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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,352	11/24/2003	Sekharipuram R. Narayanan	06618-920001 / CIT-3811	4699
20985 7590 12/18/2006 FISH & RICHARDSON, PC P.O. BOX 1022			EXAMINER	
			MARTIN, ANGELA J	
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
		·	1745	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS 12/18/2006		12/18/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/722,352	NARAYANAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Angela J. Martin	1745			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perior. Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be to d will apply and will expire SIX (6) MONTHS fror tote, cause the application to become ABANDON	N. imely filed In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
3) Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr				
Disposition of Claims					
 4) Claim(s) 1-22 is/are pending in the applicatio 4a) Of the above claim(s) 15-22 is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ 	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11) The oath or declaration is objected to by the Examin 11.	ccepted or b) objected to by the e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob-	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/18/04.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

DETAILED ACTION

Election/Restrictions

1. Claims 15-22 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 11/20/06.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Ostreicher et al., U.S. Pat. No. 4,711,793.

Ostreicher et al., teach a polymer electrolyte membrane comprising a quaternized amine salt on a support matrix (col. 10, lines 11-18).

Thus, the claim is anticipated.

Allowable Subject Matter

- 4. Claims 2-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The following is a statement of reasons for the indication of allowable subject matter:

Applicant claims a fuel cell comprising a polymer electrolyte membrane comprising a quaternized amine salt on a support matrix. Applicant claims the quaternized amine salt is selected from the group consisting of a poly-4-vinylpyridinebisulfate, a poly-4-vinylpyridinebisulfate silica composite, and a combination thereof. Applicant claims wherein the support matrix is selected from the group consisting of a glass fiber matrix, a polybenzoxazole matrix, and a polybenzimidazole matrix.

The prior art of record does not disclose a fuel cell comprising a polymer electrolyte membrane comprising a quaternized amine salt on a support matrix. The prior art of record does not disclose the quaternized amine salt is selected from the group consisting of a poly-4-vinylpyridinebisulfate, a poly-4-vinylpyridinebisulfate silica composite, and a combination thereof. The prior art of record does not disclose the support matrix is selected from the group consisting of a glass fiber matrix, a polybenzoxazole matrix, and a polybenzimidazole matrix.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Burke Jr , U.S. Pat. No. 3,644,263, teach a polymer lattice comprising a quaternary ammonium.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela J. Martin whose telephone number is 571-272-

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1288. The examiner can normally be reached on Monday-Friday from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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